

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S6	216	(313/626).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:07
S7	1031	(313/46).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:19
S8	559	S7 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 13:21
S9	985	(313/110).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:20
S10	249	S9 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 14:57
S11	1924	(313/113).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 13:20
S12	673	S11 and (heat cool heat adj sink)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:00
S13	253	(313/624).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:16
S14	248	(313/625).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:18
S16	216	(313/626).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:22
S17	4374	(S7 S9 S11 S13 S14 S16)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:22

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S18	1	("6905214").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:24
S19	722	((353/52) or (353/85)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:25
S20	175	(S17 S19) and ((heat with sink) or fin) and (lamp light source discharge) and electrode	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:30
S21	1	("20040032739").PN. OR ("7001027").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 15:50
S22	10984	seiko adj epson.as.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 15:50
S23	18149	("353").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/14 15:50
S24	500	S22 and S23	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 15:55
S25	1	10/803946	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 09:01
S26	5	S24 and (heat\$radiation near fin)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:50
S27	10	S24 and (heat\$radiation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:31
S28	1	("20040032739").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/14 16:31
S29	169	S23 and ((heat with sink) or (heat and fin)) and (electrode or bulb)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/14 16:51
S30	2492	takezawa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:17

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S31	6	seiko\$epson.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:18
S32	93324	seiko adj epson.as.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:18
S33	106	S30 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:21
S34	1	"2003082921"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 10:22
S35	1	("2003327238").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 10:22
S36	312	(353/52).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 11:14
S37	578	(313/43).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:07
S38	1131	(313/44).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:09
S39	694	(313/45).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:11
S40	398	(313/114).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/18 08:58
S41	602	(313/117).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:22
S42	1924	(313/113).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/17 17:39

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S43	132	heat\$conductive and transparent with member	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:46
S44	44313	temperature adj (detector or sensor) and (bulb or light-emitting or lamp or arc or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:47
S45	44313	(temperature adj (detector or sensor)) and (bulb or light-emitting or lamp or arc or tube)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:48
S46	238	S45 and ("353".clas. or "313".clas.)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 17:48
S47	0	("2005/0146257").URPN.	USPAT	OR	ON	2006/04/17 17:49
S48	1	("20040032739").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:35
S49	8	("4977346" "5093601" "5117154" "5399931" "5689154" "5721465" "6281620" "6281629").PN. OR ("6897613").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:37
S50	8	("4977346" "5093601" "5117154" "5399931" "5689154" "5721465" "6281620" "6281629").PN. OR ("6897613").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:37
S51	11	("3731133" "3808496" "4599540" "4633128" "4935853" "5299279" "5367444" "5399931" "5721465" "5945776").PN. OR ("6400067").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:38
S52	9	("4633128" "5399931" "5721465" "5789863" "5903088").PN. OR ("6181053").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:39
S53	6	("3684908" "5204578" "5420769" "5957570" "6281629" "6575599").PN. OR ("6784601").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:40
S55	5070	"313".clas. and (heat\$3 with wire)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:07

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S56	26	("313".clas. or "353.clas") and (heating with device) and (temperature with (detector or detect))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:04
S57	65	S55 and (temperature with (detect\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/18 11:07
S58	18162	("353").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/04/18 11:48

10803946_CLSTITLES1.txt

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10803946 on April 18, 2006

4 340/630 (4 OR, 0 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 .Specific condition
340/603 ..Fluent material
340/627 ...Particle suspension in fluid
340/628Smoke
340/630Photoelectric

3 250/574 (0 OR, 3 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/573 ..Fluent material in optical path
250/574 ...Scattered or reflected light

3 257/98 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/79 INCOHERENT LIGHT EMITTER STRUCTURE
257/98 .with reflector, opaque mask, or optical
element (e.g., lens, optical fiber, index of refraction
matching layer, luminescent material layer, filter)
integral with device or device enclosure or package

3 257/E33.043 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E33.001 LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A
POTENTIAL OR A SURFACE BARRIER, PROCESSES OR APPARATUS
PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH
DEVICES,
OR OF PARTS THEREOF
257/E33.002 .Device characterized by semiconductor body
(EPO)
257/E33.043 ..Physical imperfections (e.g., particular
concentration or distribution of impurity) (EPO)

3 340/628 (0 OR, 3 XR)
Class 340 : COMMUNICATIONS: ELECTRICAL
340/500 CONDITION RESPONSIVE INDICATING SYSTEM
340/540 .Specific condition
340/603 ..Fluent material
340/627 ...Particle suspension in fluid
340/628Smoke

3 347/262 (1 OR, 2 XR)
Class 347 : INCREMENTAL PRINTING OF SYMBOLIC INFORMATION
347/224 LIGHT OR BEAM MARKING APPARATUS OR PROCESSES
347/225 .Scan of light
347/262 ..with record receiver or handling means
therefor

3 372/36 (3 OR, 0 XR)
Class 372 : COHERENT LIGHT GENERATORS
372/34 PARTICULAR TEMPERATURE CONTROL
372/36 .Heat sink

2 257/102 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES

257/79 INCOHERENT LIGHT EMITTER STRUCTURE
 257/102 .With particular dopant material (e.g., zinc as
 dopant in GaAs)

- 2 257/103 (2 OR, 0 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/79 INCOHERENT LIGHT EMITTER STRUCTURE
 257/103 .With particular semiconductor material
- 2 257/81 (1 OR, 1 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/79 INCOHERENT LIGHT EMITTER STRUCTURE
 257/80 .In combination with or also constituting light
 responsive device
 257/81 ..With specific housing or contact structure
- 2 257/E31.108 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/E31.046Including microcrystalline Group IV
 compound (e.g., c-SiGe, c-SiC) (EPO)
 257/E31.095 .Structurally associated with electric light
 source (e.g., electroluminescent light source) (EPO)
 257/E31.103 ..Radiation-sensitive semiconductor device
 controlled by light source (EPO)
 257/E31.108 ...Semiconductor light source and
 radiation-sensitive semiconductor device both having
 potential or surface barrier (EPO)

- 2 257/E33.025 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/E33.001 LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A
 POTENTIAL OR A SURFACE BARRIER, PROCESSES OR

APPARATUS

PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH

DEVICES,

OR OF PARTS THEREOF

- 257/E33.002 .Device characterized by semiconductor body
 (EPO)
 257/E33.013 ..Material of active region (EPO)
 257/E33.023 ...Comprising only Group III-V compound (EPO)
 257/E33.024Binary compound (e.g., GaAs) (EPO)
 257/E33.025Including nitride (e.g., GaN) (EPO)

- 2 257/E33.028 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/E33.001 LIGHT EMITTING SEMICONDUCTOR DEVICES HAVING A
 POTENTIAL OR A SURFACE BARRIER, PROCESSES OR

APPARATUS

PECULIAR TO THE MANUFACTURE OR TREATMENT OF SUCH

DEVICES,

OR OF PARTS THEREOF

- 257/E33.002 .Device characterized by semiconductor body
 (EPO)
 257/E33.013 ..Material of active region (EPO)
 257/E33.023 ...Comprising only Group III-V compound (EPO)
 257/E33.026Ternary or quaternary compound (e.g.,
 AlGaAs) (EPO)
 257/E33.028Including nitride (e.g., AlGaN) (EPO)

- 2 315/291 (2 OR, 0 XR)
 Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

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315/291 CURRENT AND/OR VOLTAGE REGULATION

2 315/292 (0 OR, 2 XR)
 Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/291 CURRENT AND/OR VOLTAGE REGULATION
 315/292 .Keyboard operated or pattern controlled
 regulator

2 315/312 (0 OR, 2 XR)
 Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/312 PLURAL LOAD DEVICE SYSTEMS

2 315/362 (0 OR, 2 XR)
 Class 315 : ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS

315/362 ELECTRIC SWITCH IN THE SUPPLY CIRCUIT

2 355/27 (1 OR, 1 XR)
 Class 355 : PHOTOCOPYING
 355/18 PROJECTION PRINTING AND COPYING CAMERAS
 355/27 .With developing

2 362/260 (1 OR, 1 XR)
 Class 362 : ILLUMINATION
 362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/260 .Fluorescent type

2 362/268 (0 OR, 2 XR)
 Class 362 : ILLUMINATION
 362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/268 .Plural serial lens elements or components

2 362/294 (0 OR, 2 XR)
 Class 362 : ILLUMINATION
 362/257 LIGHT SOURCE (OR SUPPORT THEREFOR) AND MODIFIER

362/294 .With ventilating, cooling or heat insulating
 means

2 372/109 (0 OR, 2 XR)
 Class 372 : COHERENT LIGHT GENERATORS
 372/109 MISCELLANEOUS

2 372/34 (0 OR, 2 XR)
 Class 372 : COHERENT LIGHT GENERATORS
 372/34 PARTICULAR TEMPERATURE CONTROL

2 428/402.2 (0 OR, 2 XR)
 Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
 428/357 COATED OR STRUCTUALLY DEFINED FLAKE, PARTICLE,
 CELL, STRAND, STRAND PORTION, ROD, FILAMENT,

MACROSCOPIC

428/402 FIBER OR MASS THEREOF
 .Particulate matter (e.g., sphere, flake, etc.)

428/402.2 ..Microcapsule with fluid core (includes
 liposome)

- 2 428/417 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/413 .Of epoxy ether
428/417 ..Next to glass or quartz
- 2 428/425.9 (2 OR, 0 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/423.1 .Of polyamidoester (polyurethane,
polyisocyanate, polycarbamate, etc.)
428/425.9 ..Particulate metal or metal
compound-containing
- 2 428/432 (0 OR, 2 XR)
Class 428 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES
428/411.1 COMPOSITE (NONSTRUCTURAL LAMINATE)
428/426 .Of quartz or glass
428/432 ..Next to metal or compound thereof

10803946_CLS1.txt
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10803946 on April 18, 2006

Original Classifications

4 340/630
3 372/36
2 257/103
2 315/291
2 428/425.9

Cross-Reference Classifications

3 250/574
3 257/98
3 257/E33.043
3 340/628
2 257/102
2 257/E31.108
2 257/E33.025
2 257/E33.028
2 315/292
2 315/312
2 315/362
2 347/262
2 362/268
2 362/294
2 372/109
2 372/34
2 428/402.2
2 428/417
2 428/432

Combined Classifications

4 340/630
3 250/574
3 257/98
3 257/E33.043
3 340/628
3 347/262
3 372/36
2 257/102
2 257/103
2 257/81
2 257/E31.108
2 257/E33.025
2 257/E33.028
2 315/291
2 315/292
2 315/312
2 315/362
2 355/27
2 362/260
2 362/268
2 362/294
2 372/109
2 372/34
2 428/402.2
2 428/417
2 428/425.9
2 428/432